

# Global Metrology Grade 3D Scanner Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Metrology Grade 3D Scanner market size is expected to reach \$ 5170 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

In 2025, global Metrology Grade 3D Scanner production reached approximately 76.8 K units, with an average global market price of around 35,740 USD/unit.

Metrology Grade 3D Scanners refer to high-precision 3D measurement equipment designed for industrial precision detection and quality control, which can capture detailed three-dimensional spatial data of objects with micrometer-level accuracy and ensure the repeatability and traceability of measurement results. Unlike consumer-grade or professional-grade 3D scanners, they adopt advanced technical principles such as laser triangulation, structured light, or photogrammetry, and are usually equipped with professional measurement analysis software to realize real-time data processing, analysis, and reporting. These scanners must comply with international metrology standards (such as ISO 9001, ASME B89) to avoid significant operational or safety risks caused by measurement deviations in key application scenarios. Their core value lies in providing reliable dimensional measurement support for high-end manufacturing and precision engineering fields, ensuring product consistency and performance stability.

The industry chain of metrology grade 3D scanners consists of three links: upstream, midstream and downstream. The upstream is dominated by core component suppliers, including precision optical components (lenses, cameras), electronic components (high-performance chips, sensors) and raw materials (high-transmittance glass); the midstream is composed of equipment manufacturers, responsible for R&D, assembly, calibration and quality control of scanners, with key enterprises covering international leaders and domestic emerging brands; the downstream involves application fields such as automotive manufacturing, aerospace, medical devices and electronic

semiconductors, where end-users use the equipment for quality inspection, reverse engineering and other scenarios.

The cost structure of metrology grade 3D scanners is hierarchical, with core precision optical components accounting for the largest proportion of 35-45%, which directly determines the measurement accuracy; followed by algorithm and software development costs accounting for 15-20%, relying on long-term technical accumulation; mechanical structure and material costs account for 12-18%, ensuring structural stability in complex environments; assembly, calibration and quality inspection costs account for 10-15%, requiring professional processes and personnel; and the remaining 8-12% is for marketing, after-sales service and other operating costs.

The demand for metrology grade 3D scanners is mainly driven by the global promotion of intelligent manufacturing, the increasing emphasis on product quality in high-end manufacturing, and the expansion of application scenarios. The growth of automotive, aerospace and electronic semiconductor industries has further boosted demand. Business opportunities lie in developing high-performance and low-cost products to promote domestic substitution, researching portable and intelligent solutions to adapt to on-site measurement needs, integrating AI and automation technologies to improve detection efficiency, and expanding emerging application fields such as medical customization.

This report studies the global Metrology Grade 3D Scanner production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metrology Grade 3D Scanner and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Metrology Grade 3D Scanner that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Metrology Grade 3D Scanner total production and demand, 2021-2032, (K Units)

Global Metrology Grade 3D Scanner total production value, 2021-2032, (USD Million)

Global Metrology Grade 3D Scanner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Metrology Grade 3D Scanner consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Metrology Grade 3D Scanner domestic production, consumption, key domestic manufacturers and share

Global Metrology Grade 3D Scanner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Metrology Grade 3D Scanner production by Technical Principle, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Metrology Grade 3D Scanner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Metrology Grade 3D Scanner market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shining 3D, ZEISS, Hexagon, FARO, Nikon Metrology, Scantech, Creaform (AMETEK), KEYENCE, XTOP, SMARTTECH3D, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Metrology Grade 3D Scanner market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Technical Principle, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Metrology Grade 3D Scanner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metrology Grade 3D Scanner Market, Segmentation by Technical Principle:

Structured Light Metrology 3D Scanners

Laser Triangulation Metrology 3D Scanners

Photogrammetry Metrology 3D Scanners

Time-Of-Flight (ToF) Metrology 3D Scanners

Global Metrology Grade 3D Scanner Market, Segmentation by Portability Type:

Handheld Metrology 3D Scanners

Fixed-Station Metrology 3D Scanners

Portable Metrology 3D Scanners

Global Metrology Grade 3D Scanner Market, Segmentation by Precision Level:

Micrometer-Level Metrology 3D Scanners

Sub-Millimeter-Level Metrology 3D Scanners

Global Metrology Grade 3D Scanner Market, Segmentation by Application:

Aerospace and Defense

Medical Insurance

Architecture and Engineering

Energy and Power

Automotive and Transportation

Others

## **Companies Profiled:**

Shining 3D

ZEISS

Hexagon

FARO

Nikon Metrology

Scantech

Creaform (AMETEK)

KEYENCE

XTOP

SMARTTECH3D

RangeVision

Revopoint 3D

HOLON 3D

Insvision Technology

Artec 3D

Shanghai Acme Technology

VISION3D TECHNOLOGY

## **Key Questions Answered:**

1. How big is the global Metrology Grade 3D Scanner market?

2. What is the demand of the global Metrology Grade 3D Scanner market?
3. What is the year over year growth of the global Metrology Grade 3D Scanner market?
4. What is the production and production value of the global Metrology Grade 3D Scanner market?
5. Who are the key producers in the global Metrology Grade 3D Scanner market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Metrology Grade 3D Scanner Introduction
- 1.2 World Metrology Grade 3D Scanner Supply & Forecast
  - 1.2.1 World Metrology Grade 3D Scanner Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Metrology Grade 3D Scanner Production (2021-2032)
  - 1.2.3 World Metrology Grade 3D Scanner Pricing Trends (2021-2032)
- 1.3 World Metrology Grade 3D Scanner Production by Region (Based on Production Site)
  - 1.3.1 World Metrology Grade 3D Scanner Production Value by Region (2021-2032)
  - 1.3.2 World Metrology Grade 3D Scanner Production by Region (2021-2032)
  - 1.3.3 World Metrology Grade 3D Scanner Average Price by Region (2021-2032)
  - 1.3.4 North America Metrology Grade 3D Scanner Production (2021-2032)
  - 1.3.5 Europe Metrology Grade 3D Scanner Production (2021-2032)
  - 1.3.6 China Metrology Grade 3D Scanner Production (2021-2032)
  - 1.3.7 Japan Metrology Grade 3D Scanner Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Metrology Grade 3D Scanner Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Metrology Grade 3D Scanner Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Metrology Grade 3D Scanner Demand (2021-2032)
- 2.2 World Metrology Grade 3D Scanner Consumption by Region
  - 2.2.1 World Metrology Grade 3D Scanner Consumption by Region (2021-2026)
  - 2.2.2 World Metrology Grade 3D Scanner Consumption Forecast by Region (2027-2032)
- 2.3 United States Metrology Grade 3D Scanner Consumption (2021-2032)
- 2.4 China Metrology Grade 3D Scanner Consumption (2021-2032)
- 2.5 Europe Metrology Grade 3D Scanner Consumption (2021-2032)
- 2.6 Japan Metrology Grade 3D Scanner Consumption (2021-2032)
- 2.7 South Korea Metrology Grade 3D Scanner Consumption (2021-2032)
- 2.8 ASEAN Metrology Grade 3D Scanner Consumption (2021-2032)
- 2.9 India Metrology Grade 3D Scanner Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Metrology Grade 3D Scanner Production Value by Manufacturer (2021-2026)
- 3.2 World Metrology Grade 3D Scanner Production by Manufacturer (2021-2026)
- 3.3 World Metrology Grade 3D Scanner Average Price by Manufacturer (2021-2026)
- 3.4 Metrology Grade 3D Scanner Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Metrology Grade 3D Scanner Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Metrology Grade 3D Scanner in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Metrology Grade 3D Scanner in 2025
- 3.6 Metrology Grade 3D Scanner Market: Overall Company Footprint Analysis
  - 3.6.1 Metrology Grade 3D Scanner Market: Region Footprint
  - 3.6.2 Metrology Grade 3D Scanner Market: Company Product Type Footprint
  - 3.6.3 Metrology Grade 3D Scanner Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Metrology Grade 3D Scanner Production Value Comparison
  - 4.1.1 United States VS China: Metrology Grade 3D Scanner Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Metrology Grade 3D Scanner Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Metrology Grade 3D Scanner Production Comparison
  - 4.2.1 United States VS China: Metrology Grade 3D Scanner Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Metrology Grade 3D Scanner Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Metrology Grade 3D Scanner Consumption Comparison
  - 4.3.1 United States VS China: Metrology Grade 3D Scanner Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Metrology Grade 3D Scanner Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Metrology Grade 3D Scanner Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based Metrology Grade 3D Scanner Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Metrology Grade 3D Scanner Production Value (2021-2026)

4.4.3 United States Based Manufacturers Metrology Grade 3D Scanner Production (2021-2026)

4.5 China Based Metrology Grade 3D Scanner Manufacturers and Market Share

4.5.1 China Based Metrology Grade 3D Scanner Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Metrology Grade 3D Scanner Production Value (2021-2026)

4.5.3 China Based Manufacturers Metrology Grade 3D Scanner Production (2021-2026)

4.6 Rest of World Based Metrology Grade 3D Scanner Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Metrology Grade 3D Scanner Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Metrology Grade 3D Scanner Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Metrology Grade 3D Scanner Production (2021-2026)

## **5 MARKET ANALYSIS BY TECHNICAL PRINCIPLE**

5.1 World Metrology Grade 3D Scanner Market Size Overview by Technical Principle: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Technical Principle

5.2.1 Structured Light Metrology 3D Scanners

5.2.2 Laser Triangulation Metrology 3D Scanners

5.2.3 Photogrammetry Metrology 3D Scanners

5.2.4 Time-Of-Flight (ToF) Metrology 3D Scanners

5.3 Market Segment by Technical Principle

5.3.1 World Metrology Grade 3D Scanner Production by Technical Principle (2021-2032)

5.3.2 World Metrology Grade 3D Scanner Production Value by Technical Principle (2021-2032)

5.3.3 World Metrology Grade 3D Scanner Average Price by Technical Principle (2021-2032)

## **6 MARKET ANALYSIS BY PORTABILITY TYPE**

6.1 World Metrology Grade 3D Scanner Market Size Overview by Portability Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Portability Type

6.2.1 Handheld Metrology 3D Scanners

6.2.2 Fixed-Station Metrology 3D Scanners

6.2.3 Portable Metrology 3D Scanners

6.3 Market Segment by Portability Type

6.3.1 World Metrology Grade 3D Scanner Production by Portability Type (2021-2032)

6.3.2 World Metrology Grade 3D Scanner Production Value by Portability Type (2021-2032)

6.3.3 World Metrology Grade 3D Scanner Average Price by Portability Type (2021-2032)

## **7 MARKET ANALYSIS BY PRECISION LEVEL**

7.1 World Metrology Grade 3D Scanner Market Size Overview by Precision Level: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Precision Level

7.2.1 Micrometer-Level Metrology 3D Scanners

7.2.2 Sub-Millimeter-Level Metrology 3D Scanners

7.3 Market Segment by Precision Level

7.3.1 World Metrology Grade 3D Scanner Production by Precision Level (2021-2032)

7.3.2 World Metrology Grade 3D Scanner Production Value by Precision Level (2021-2032)

7.3.3 World Metrology Grade 3D Scanner Average Price by Precision Level (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Metrology Grade 3D Scanner Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace and Defense

8.2.2 Medical Insurance

8.2.3 Architecture and Engineering

8.2.4 Energy and Power

8.2.5 Automotive and Transportation

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Metrology Grade 3D Scanner Production by Application (2021-2032)

8.3.2 World Metrology Grade 3D Scanner Production Value by Application (2021-2032)

8.3.3 World Metrology Grade 3D Scanner Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 Shining 3D

9.1.1 Shining 3D Details

9.1.2 Shining 3D Major Business

9.1.3 Shining 3D Metrology Grade 3D Scanner Product and Services

9.1.4 Shining 3D Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Shining 3D Recent Developments/Updates

9.1.6 Shining 3D Competitive Strengths & Weaknesses

9.2 ZEISS

9.2.1 ZEISS Details

9.2.2 ZEISS Major Business

9.2.3 ZEISS Metrology Grade 3D Scanner Product and Services

9.2.4 ZEISS Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ZEISS Recent Developments/Updates

9.2.6 ZEISS Competitive Strengths & Weaknesses

9.3 Hexagon

9.3.1 Hexagon Details

9.3.2 Hexagon Major Business

9.3.3 Hexagon Metrology Grade 3D Scanner Product and Services

9.3.4 Hexagon Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Hexagon Recent Developments/Updates

9.3.6 Hexagon Competitive Strengths & Weaknesses

9.4 FARO

9.4.1 FARO Details

9.4.2 FARO Major Business

9.4.3 FARO Metrology Grade 3D Scanner Product and Services

9.4.4 FARO Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

9.4.5 FARO Recent Developments/Updates

9.4.6 FARO Competitive Strengths & Weaknesses

## 9.5 Nikon Metrology

9.5.1 Nikon Metrology Details

9.5.2 Nikon Metrology Major Business

9.5.3 Nikon Metrology Metrology Grade 3D Scanner Product and Services

9.5.4 Nikon Metrology Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Nikon Metrology Recent Developments/Updates

9.5.6 Nikon Metrology Competitive Strengths & Weaknesses

## 9.6 Scantech

9.6.1 Scantech Details

9.6.2 Scantech Major Business

9.6.3 Scantech Metrology Grade 3D Scanner Product and Services

9.6.4 Scantech Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Scantech Recent Developments/Updates

9.6.6 Scantech Competitive Strengths & Weaknesses

## 9.7 Creaform (AMETEK)

9.7.1 Creaform (AMETEK) Details

9.7.2 Creaform (AMETEK) Major Business

9.7.3 Creaform (AMETEK) Metrology Grade 3D Scanner Product and Services

9.7.4 Creaform (AMETEK) Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Creaform (AMETEK) Recent Developments/Updates

9.7.6 Creaform (AMETEK) Competitive Strengths & Weaknesses

## 9.8 KEYENCE

9.8.1 KEYENCE Details

9.8.2 KEYENCE Major Business

9.8.3 KEYENCE Metrology Grade 3D Scanner Product and Services

9.8.4 KEYENCE Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 KEYENCE Recent Developments/Updates

9.8.6 KEYENCE Competitive Strengths & Weaknesses

## 9.9 XTOP

9.9.1 XTOP Details

9.9.2 XTOP Major Business

9.9.3 XTOP Metrology Grade 3D Scanner Product and Services

9.9.4 XTOP Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 XTOP Recent Developments/Updates

9.9.6 XTOP Competitive Strengths & Weaknesses

9.10 SMARTTECH3D

9.10.1 SMARTTECH3D Details

9.10.2 SMARTTECH3D Major Business

9.10.3 SMARTTECH3D Metrology Grade 3D Scanner Product and Services

9.10.4 SMARTTECH3D Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 SMARTTECH3D Recent Developments/Updates

9.10.6 SMARTTECH3D Competitive Strengths & Weaknesses

9.11 RangeVision

9.11.1 RangeVision Details

9.11.2 RangeVision Major Business

9.11.3 RangeVision Metrology Grade 3D Scanner Product and Services

9.11.4 RangeVision Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 RangeVision Recent Developments/Updates

9.11.6 RangeVision Competitive Strengths & Weaknesses

9.12 Revopoint 3D

9.12.1 Revopoint 3D Details

9.12.2 Revopoint 3D Major Business

9.12.3 Revopoint 3D Metrology Grade 3D Scanner Product and Services

9.12.4 Revopoint 3D Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Revopoint 3D Recent Developments/Updates

9.12.6 Revopoint 3D Competitive Strengths & Weaknesses

9.13 HOLON 3D

9.13.1 HOLON 3D Details

9.13.2 HOLON 3D Major Business

9.13.3 HOLON 3D Metrology Grade 3D Scanner Product and Services

9.13.4 HOLON 3D Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 HOLON 3D Recent Developments/Updates

9.13.6 HOLON 3D Competitive Strengths & Weaknesses

9.14 Invision Technology

9.14.1 Invision Technology Details

9.14.2 Invision Technology Major Business

- 9.14.3 Invision Technology Metrology Grade 3D Scanner Product and Services
- 9.14.4 Invision Technology Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Invision Technology Recent Developments/Updates
- 9.14.6 Invision Technology Competitive Strengths & Weaknesses
- 9.15 Artec 3D
  - 9.15.1 Artec 3D Details
  - 9.15.2 Artec 3D Major Business
  - 9.15.3 Artec 3D Metrology Grade 3D Scanner Product and Services
  - 9.15.4 Artec 3D Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Artec 3D Recent Developments/Updates
  - 9.15.6 Artec 3D Competitive Strengths & Weaknesses
- 9.16 Shanghai Acme Technology
  - 9.16.1 Shanghai Acme Technology Details
  - 9.16.2 Shanghai Acme Technology Major Business
  - 9.16.3 Shanghai Acme Technology Metrology Grade 3D Scanner Product and Services
  - 9.16.4 Shanghai Acme Technology Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Shanghai Acme Technology Recent Developments/Updates
  - 9.16.6 Shanghai Acme Technology Competitive Strengths & Weaknesses
- 9.17 VISION3D TECHNOLOGY
  - 9.17.1 VISION3D TECHNOLOGY Details
  - 9.17.2 VISION3D TECHNOLOGY Major Business
  - 9.17.3 VISION3D TECHNOLOGY Metrology Grade 3D Scanner Product and Services
  - 9.17.4 VISION3D TECHNOLOGY Metrology Grade 3D Scanner Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 VISION3D TECHNOLOGY Recent Developments/Updates
  - 9.17.6 VISION3D TECHNOLOGY Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Metrology Grade 3D Scanner Industry Chain
- 10.2 Metrology Grade 3D Scanner Upstream Analysis
  - 10.2.1 Metrology Grade 3D Scanner Core Raw Materials
  - 10.2.2 Main Manufacturers of Metrology Grade 3D Scanner Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

- 10.5 Metrology Grade 3D Scanner Production Mode
- 10.6 Metrology Grade 3D Scanner Procurement Model
- 10.7 Metrology Grade 3D Scanner Industry Sales Model and Sales Channels
  - 10.7.1 Metrology Grade 3D Scanner Sales Model
  - 10.7.2 Metrology Grade 3D Scanner Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Metrology Grade 3D Scanner Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Metrology Grade 3D Scanner Production Value by Region (2021-2026) & (USD Million)

Table 3. World Metrology Grade 3D Scanner Production Value by Region (2027-2032) & (USD Million)

Table 4. World Metrology Grade 3D Scanner Production Value Market Share by Region (2021-2026)

Table 5. World Metrology Grade 3D Scanner Production Value Market Share by Region (2027-2032)

Table 6. World Metrology Grade 3D Scanner Production by Region (2021-2026) & (K Units)

Table 7. World Metrology Grade 3D Scanner Production by Region (2027-2032) & (K Units)

Table 8. World Metrology Grade 3D Scanner Production Market Share by Region (2021-2026)

Table 9. World Metrology Grade 3D Scanner Production Market Share by Region (2027-2032)

Table 10. World Metrology Grade 3D Scanner Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Metrology Grade 3D Scanner Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Metrology Grade 3D Scanner Major Market Trends

Table 13. World Metrology Grade 3D Scanner Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Metrology Grade 3D Scanner Consumption by Region (2021-2026) & (K Units)

Table 15. World Metrology Grade 3D Scanner Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Metrology Grade 3D Scanner Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Metrology Grade 3D Scanner Producers in 2025

Table 18. World Metrology Grade 3D Scanner Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Metrology Grade 3D Scanner Producers in 2025

Table 20. World Metrology Grade 3D Scanner Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Metrology Grade 3D Scanner Company Evaluation Quadrant

Table 22. World Metrology Grade 3D Scanner Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Metrology Grade 3D Scanner Production Site of Key Manufacturer

Table 24. Metrology Grade 3D Scanner Market: Company Product Type Footprint

Table 25. Metrology Grade 3D Scanner Market: Company Product Application Footprint

Table 26. Metrology Grade 3D Scanner Competitive Factors

Table 27. Metrology Grade 3D Scanner New Entrant and Capacity Expansion Plans

Table 28. Metrology Grade 3D Scanner Mergers & Acquisitions Activity

Table 29. United States VS China Metrology Grade 3D Scanner Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Metrology Grade 3D Scanner Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Metrology Grade 3D Scanner Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Metrology Grade 3D Scanner Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Metrology Grade 3D Scanner Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Metrology Grade 3D Scanner Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Metrology Grade 3D Scanner Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Metrology Grade 3D Scanner Production Market Share (2021-2026)

Table 37. China Based Metrology Grade 3D Scanner Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Metrology Grade 3D Scanner Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Metrology Grade 3D Scanner Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Metrology Grade 3D Scanner Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Metrology Grade 3D Scanner Production Market

Share (2021-2026)

Table 42. Rest of World Based Metrology Grade 3D Scanner Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Metrology Grade 3D Scanner Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Metrology Grade 3D Scanner Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Metrology Grade 3D Scanner Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Metrology Grade 3D Scanner Production Market Share (2021-2026)

Table 47. World Metrology Grade 3D Scanner Production Value by Technical Principle, (USD Million), 2021 & 2025 & 2032

Table 48. World Metrology Grade 3D Scanner Production by Technical Principle (2021-2026) & (K Units)

Table 49. World Metrology Grade 3D Scanner Production by Technical Principle (2027-2032) & (K Units)

Table 50. World Metrology Grade 3D Scanner Production Value by Technical Principle (2021-2026) & (USD Million)

Table 51. World Metrology Grade 3D Scanner Production Value by Technical Principle (2027-2032) & (USD Million)

Table 52. World Metrology Grade 3D Scanner Average Price by Technical Principle (2021-2026) & (US\$/Unit)

Table 53. World Metrology Grade 3D Scanner Average Price by Technical Principle (2027-2032) & (US\$/Unit)

Table 54. World Metrology Grade 3D Scanner Production Value by Portability Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Metrology Grade 3D Scanner Production by Portability Type (2021-2026) & (K Units)

Table 56. World Metrology Grade 3D Scanner Production by Portability Type (2027-2032) & (K Units)

Table 57. World Metrology Grade 3D Scanner Production Value by Portability Type (2021-2026) & (USD Million)

Table 58. World Metrology Grade 3D Scanner Production Value by Portability Type (2027-2032) & (USD Million)

Table 59. World Metrology Grade 3D Scanner Average Price by Portability Type (2021-2026) & (US\$/Unit)

Table 60. World Metrology Grade 3D Scanner Average Price by Portability Type (2027-2032) & (US\$/Unit)

Table 61. World Metrology Grade 3D Scanner Production Value by Precision Level, (USD Million), 2021 & 2025 & 2032

Table 62. World Metrology Grade 3D Scanner Production by Precision Level (2021-2026) & (K Units)

Table 63. World Metrology Grade 3D Scanner Production by Precision Level (2027-2032) & (K Units)

Table 64. World Metrology Grade 3D Scanner Production Value by Precision Level (2021-2026) & (USD Million)

Table 65. World Metrology Grade 3D Scanner Production Value by Precision Level (2027-2032) & (USD Million)

Table 66. World Metrology Grade 3D Scanner Average Price by Precision Level (2021-2026) & (US\$/Unit)

Table 67. World Metrology Grade 3D Scanner Average Price by Precision Level (2027-2032) & (US\$/Unit)

Table 68. World Metrology Grade 3D Scanner Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Metrology Grade 3D Scanner Production by Application (2021-2026) & (K Units)

Table 70. World Metrology Grade 3D Scanner Production by Application (2027-2032) & (K Units)

Table 71. World Metrology Grade 3D Scanner Production Value by Application (2021-2026) & (USD Million)

Table 72. World Metrology Grade 3D Scanner Production Value by Application (2027-2032) & (USD Million)

Table 73. World Metrology Grade 3D Scanner Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Metrology Grade 3D Scanner Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Shining 3D Basic Information, Manufacturing Base and Competitors

Table 76. Shining 3D Major Business

Table 77. Shining 3D Metrology Grade 3D Scanner Product and Services

Table 78. Shining 3D Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Shining 3D Recent Developments/Updates

Table 80. Shining 3D Competitive Strengths & Weaknesses

Table 81. ZEISS Basic Information, Manufacturing Base and Competitors

Table 82. ZEISS Major Business

Table 83. ZEISS Metrology Grade 3D Scanner Product and Services

Table 84. ZEISS Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ZEISS Recent Developments/Updates

Table 86. ZEISS Competitive Strengths & Weaknesses

Table 87. Hexagon Basic Information, Manufacturing Base and Competitors

Table 88. Hexagon Major Business

Table 89. Hexagon Metrology Grade 3D Scanner Product and Services

Table 90. Hexagon Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Hexagon Recent Developments/Updates

Table 92. Hexagon Competitive Strengths & Weaknesses

Table 93. FARO Basic Information, Manufacturing Base and Competitors

Table 94. FARO Major Business

Table 95. FARO Metrology Grade 3D Scanner Product and Services

Table 96. FARO Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. FARO Recent Developments/Updates

Table 98. FARO Competitive Strengths & Weaknesses

Table 99. Nikon Metrology Basic Information, Manufacturing Base and Competitors

Table 100. Nikon Metrology Major Business

Table 101. Nikon Metrology Metrology Grade 3D Scanner Product and Services

Table 102. Nikon Metrology Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Nikon Metrology Recent Developments/Updates

Table 104. Nikon Metrology Competitive Strengths & Weaknesses

Table 105. Scantech Basic Information, Manufacturing Base and Competitors

Table 106. Scantech Major Business

Table 107. Scantech Metrology Grade 3D Scanner Product and Services

Table 108. Scantech Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Scantech Recent Developments/Updates

Table 110. Scantech Competitive Strengths & Weaknesses

Table 111. Creaform (AMETEK) Basic Information, Manufacturing Base and Competitors

Table 112. Creaform (AMETEK) Major Business

Table 113. Creaform (AMETEK) Metrology Grade 3D Scanner Product and Services

Table 114. Creaform (AMETEK) Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Creaform (AMETEK) Recent Developments/Updates

Table 116. Creaform (AMETEK) Competitive Strengths & Weaknesses

Table 117. KEYENCE Basic Information, Manufacturing Base and Competitors

Table 118. KEYENCE Major Business

Table 119. KEYENCE Metrology Grade 3D Scanner Product and Services

Table 120. KEYENCE Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. KEYENCE Recent Developments/Updates

Table 122. KEYENCE Competitive Strengths & Weaknesses

Table 123. XTOP Basic Information, Manufacturing Base and Competitors

Table 124. XTOP Major Business

Table 125. XTOP Metrology Grade 3D Scanner Product and Services

Table 126. XTOP Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. XTOP Recent Developments/Updates

Table 128. XTOP Competitive Strengths & Weaknesses

Table 129. SMARTTECH3D Basic Information, Manufacturing Base and Competitors

Table 130. SMARTTECH3D Major Business

Table 131. SMARTTECH3D Metrology Grade 3D Scanner Product and Services

Table 132. SMARTTECH3D Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SMARTTECH3D Recent Developments/Updates

Table 134. SMARTTECH3D Competitive Strengths & Weaknesses

Table 135. RangeVision Basic Information, Manufacturing Base and Competitors

Table 136. RangeVision Major Business

Table 137. RangeVision Metrology Grade 3D Scanner Product and Services

Table 138. RangeVision Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. RangeVision Recent Developments/Updates

Table 140. RangeVision Competitive Strengths & Weaknesses

Table 141. Revopoint 3D Basic Information, Manufacturing Base and Competitors

Table 142. Revopoint 3D Major Business

Table 143. Revopoint 3D Metrology Grade 3D Scanner Product and Services

Table 144. Revopoint 3D Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Revopoint 3D Recent Developments/Updates

Table 146. Revopoint 3D Competitive Strengths & Weaknesses

Table 147. HOLON 3D Basic Information, Manufacturing Base and Competitors

Table 148. HOLON 3D Major Business

Table 149. HOLON 3D Metrology Grade 3D Scanner Product and Services

Table 150. HOLON 3D Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. HOLON 3D Recent Developments/Updates

Table 152. HOLON 3D Competitive Strengths & Weaknesses

Table 153. Invision Technology Basic Information, Manufacturing Base and Competitors

Table 154. Invision Technology Major Business

Table 155. Invision Technology Metrology Grade 3D Scanner Product and Services

Table 156. Invision Technology Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Invision Technology Recent Developments/Updates

Table 158. Invision Technology Competitive Strengths & Weaknesses

Table 159. Artec 3D Basic Information, Manufacturing Base and Competitors

Table 160. Artec 3D Major Business

Table 161. Artec 3D Metrology Grade 3D Scanner Product and Services

Table 162. Artec 3D Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Artec 3D Recent Developments/Updates

Table 164. Artec 3D Competitive Strengths & Weaknesses

Table 165. Shanghai Acme Technology Basic Information, Manufacturing Base and Competitors

Table 166. Shanghai Acme Technology Major Business

Table 167. Shanghai Acme Technology Metrology Grade 3D Scanner Product and Services

Table 168. Shanghai Acme Technology Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Shanghai Acme Technology Recent Developments/Updates

Table 170. Shanghai Acme Technology Competitive Strengths & Weaknesses

Table 171. VISION3D TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 172. VISION3D TECHNOLOGY Major Business

Table 173. VISION3D TECHNOLOGY Metrology Grade 3D Scanner Product and Services

Table 174. VISION3D TECHNOLOGY Metrology Grade 3D Scanner Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. VISION3D TECHNOLOGY Recent Developments/Updates

Table 176. VISION3D TECHNOLOGY Competitive Strengths & Weaknesses

Table 177. Global Key Players of Metrology Grade 3D Scanner Upstream (Raw Materials)

Table 178. Global Metrology Grade 3D Scanner Typical Customers

Table 179. Metrology Grade 3D Scanner Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Metrology Grade 3D Scanner Picture

Figure 2. World Metrology Grade 3D Scanner Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Metrology Grade 3D Scanner Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Metrology Grade 3D Scanner Production (2021-2032) & (K Units)

Figure 5. World Metrology Grade 3D Scanner Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Metrology Grade 3D Scanner Production Value Market Share by Region (2021-2032)

Figure 7. World Metrology Grade 3D Scanner Production Market Share by Region (2021-2032)

Figure 8. North America Metrology Grade 3D Scanner Production (2021-2032) & (K Units)

Figure 9. Europe Metrology Grade 3D Scanner Production (2021-2032) & (K Units)

Figure 10. China Metrology Grade 3D Scanner Production (2021-2032) & (K Units)

Figure 11. Japan Metrology Grade 3D Scanner Production (2021-2032) & (K Units)

Figure 12. Metrology Grade 3D Scanner Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 15. World Metrology Grade 3D Scanner Consumption Market Share by Region (2021-2032)

Figure 16. United States Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 17. China Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 18. Europe Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 19. Japan Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 20. South Korea Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 22. India Metrology Grade 3D Scanner Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Metrology Grade 3D Scanner by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Metrology Grade 3D Scanner Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Metrology Grade 3D

## Scanner Markets in 2025

Figure 26. United States VS China: Metrology Grade 3D Scanner Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Metrology Grade 3D Scanner Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Metrology Grade 3D Scanner Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Metrology Grade 3D Scanner Production Market Share 2025

Figure 30. China Based Manufacturers Metrology Grade 3D Scanner Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Metrology Grade 3D Scanner Production Market Share 2025

Figure 32. World Metrology Grade 3D Scanner Production Value by Technical Principle, (USD Million), 2021 & 2025 & 2032

Figure 33. World Metrology Grade 3D Scanner Production Value Market Share by Technical Principle in 2025

Figure 34. Structured Light Metrology 3D Scanners

Figure 35. Laser Triangulation Metrology 3D Scanners

Figure 36. Photogrammetry Metrology 3D Scanners

Figure 37. Time-Of-Flight (ToF) Metrology 3D Scanners

Figure 38. World Metrology Grade 3D Scanner Production Market Share by Technical Principle (2021-2032)

Figure 39. World Metrology Grade 3D Scanner Production Value Market Share by Technical Principle (2021-2032)

Figure 40. World Metrology Grade 3D Scanner Average Price by Technical Principle (2021-2032) & (US\$/Unit)

Figure 41. World Metrology Grade 3D Scanner Production Value by Portability Type, (USD Million), 2021 & 2025 & 2032

Figure 42. World Metrology Grade 3D Scanner Production Value Market Share by Portability Type in 2025

Figure 43. Handheld Metrology 3D Scanners

Figure 44. Fixed-Station Metrology 3D Scanners

Figure 45. Portable Metrology 3D Scanners

Figure 46. World Metrology Grade 3D Scanner Production Market Share by Portability Type (2021-2032)

Figure 47. World Metrology Grade 3D Scanner Production Value Market Share by Portability Type (2021-2032)

Figure 48. World Metrology Grade 3D Scanner Average Price by Portability Type

(2021-2032) & (US\$/Unit)

Figure 49. World Metrology Grade 3D Scanner Production Value by Precision Level, (USD Million), 2021 & 2025 & 2032

Figure 50. World Metrology Grade 3D Scanner Production Value Market Share by Precision Level in 2025

Figure 51. Micrometer-Level Metrology 3D Scanners

Figure 52. Sub-Millimeter-Level Metrology 3D Scanners

Figure 53. World Metrology Grade 3D Scanner Production Market Share by Precision Level (2021-2032)

Figure 54. World Metrology Grade 3D Scanner Production Value Market Share by Precision Level (2021-2032)

Figure 55. World Metrology Grade 3D Scanner Average Price by Precision Level (2021-2032) & (US\$/Unit)

Figure 56. World Metrology Grade 3D Scanner Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Metrology Grade 3D Scanner Production Value Market Share by Application in 2025

Figure 58. Aerospace and Defense

Figure 59. Medical Insurance

Figure 60. Architecture and Engineering

Figure 61. Energy and Power

Figure 62. Automotive and Transportation

Figure 63. Others

Figure 64. World Metrology Grade 3D Scanner Production Market Share by Application (2021-2032)

Figure 65. World Metrology Grade 3D Scanner Production Value Market Share by Application (2021-2032)

Figure 66. World Metrology Grade 3D Scanner Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Metrology Grade 3D Scanner Industry Chain

Figure 68. Metrology Grade 3D Scanner Procurement Model

Figure 69. Metrology Grade 3D Scanner Sales Model

Figure 70. Metrology Grade 3D Scanner Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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